

# 3/837

## SEARCH REQUEST FORM

Access DB# \_\_\_\_\_

Scientific and Technical Information Center

Requester's Full Name: L. E. Crane Examiner #: 65753 Date: 12/21/00  
 Art Unit: 1623 Phone Number 303-4639 Serial Number: 09/371,747  
 Mail Box and Bldg/Room Location: CM-1; 7E-12 Results Format Preferred (circle): PAPER DISK E-MAIL  
 Office: CMR-1: 8D-114

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Please see copy of claims attached

Inventors (please provide full names): "

Earliest Priority Filing Date: 08/10/98

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

hosts infected with hepatitis B,  
 Please search for methods of treating by the administration  
 of 'any L-2'-deoxyribonucleoside/nucleotide/ester-prodrug  
 see the adenosine L-nucleosides in claim 2 and the cytidine, uridine  
~~xxxxxx~~ guanosine, inosine, thymidine analog based  
 methods of treatment in claims 3-8. (See also the additional  
 active ingredients of claim 10).

Please also search the compounds/compositions and prodrugs of  
 2'-deoxy-L-inosine (claims 11-12)

**Point of Contact:**  
**Susan Hanley**  
**Technical Info. Specialist**  
**CM1 12C14 Tel: 305-4053**

### STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Hanley</u>	NA Sequence (#) <u>STN</u>	
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>1</u>	Questel/Orbit _____
Date Searcher Picked Up: <u>1/8</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>1/12</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>100</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>90</u>	Other _____	Other (specify) _____

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(FILE 'HOME' ENTERED AT 16:43:38 ON 11 JAN 2001)

FILE 'REGISTRY' ENTERED AT 16:43:50 ON 11 JAN 2001  
ACT CRA747I/A

```

L1      105 SEA FILE=REGISTRY ABB=ON PLU=ON (160963-01-9/BI OR 170079-20-
L2      STR
L3      STR
L4      153171 S OC4/ES(P){(NCNC2-NCNC3/ES) OR (NCNC3/ES)}
L5      6144 S L4 AND ERYTHRO?
L6      STR L2
L7      50 S L6 SSS SAM SUB=L4
L8      58210 S L6 SSS FUL SUB=L4
L9      STR
L10     50 S L9 SSS SAM SUB=L8
L11     STR L9
L12     50 S L11 SSS SAM SUB=L8
L13     STR L11
L14     STR L13
L15     1 S L14 SSS SAM SUB=L8
L16     62 S L14 SSS FUL SUB=L8
L17     9 S L1 AND L16
        SAVE L16 CRA747S/A

```

*(pymode n purine) ring*  
*parent set*  
*subset #1 no stereochem*  
*subset #2 w/ stereochem*

FILE 'REGISTRY' ENTERED AT 17:59:21 ON 11 JAN 2001

FILE 'HCAPLUS' ENTERED AT 17:59:41 ON 11 JAN 2001

```

L18     80 S L16
L19     1 S 2000:133703/AN
L20     79 S L18 NOT L19
L21     21 S L20 AND PY>1998
L22     58 S L20 NOT L21

```

FILE 'REGISTRY' ENTERED AT 18:03:19 ON 11 JAN 2001

```

L23     0 S L16 AND VALIN?
L24     0 S L16 AND INOSIN?
        E INOSIN/CN
L25     STR L14
L26     0 S L25 SSS SAM SUB=L16
L27     STR L6
L28     13 S L27 SSS SAM SUB=L8
L29     268 S L27 SSS FUL SUB=L8
        SAVE L29 CRA747Z1/A
L30     0 S L29 AND L16
L31     STR L14
L32     0 S L31 SSS SAM SUB=L16
L33     1 S L31 SSS FUL SUB=L16

```

*subset #3 w/ AA side chain (no stereochem)*  
*no L16 cpds have AA side chain*  
*1 cpd w/ inosine base*

FILE 'HCAPLUS' ENTERED AT 18:22:05 ON 11 JAN 2001

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L34     4 S L33
L35     3 S L34 AND PY>1998
L36     1 S L34 NOT L35
L37     57 S L22 NOT L36
L38     3 S L37 AND HEPATITIS
L39     4 S L37(L)THU/RL
L40     7 S L39 OR L38
L41     50 S L37 NOT L40

```

*1 cite w/ inosine base*  
*7 cites*

FILE 'REGISTRY' ENTERED AT 18:28:21 ON 11 JAN 2001

```

L42     0 S RIBAVARIN/CN
        E RIBAVARIN/CN
L43     9 S E4-15
L44     1 S 3TC/CN
L45     1 S L-FMAU
L46     1 S DAPD/CN
L47     1 S FAMCICLOVIR/CN

```

REYES 09/371,747

L48 1 S PENCICLOVIR/CN  
L49 0 S BM2-200475/CN  
L50 1 S PMEA/CN  
L51 0 S DIPIVOXIL/CN  
L52 1 S LOBUCAVIR/CN  
L53 1 S GANCICLOVIR/CN

FILE 'HCAPLUS' ENTERED AT 18:30:55 ON 11 JAN 2001

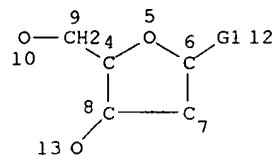
L54 3888 S L43-53  
L55 2 S L54 AND L37 *2 cites*  
L56 49 S L41 NOT L55 *49 cites*  
L57 0 S L56 AND ANTI(W)VIRAL?

FILE 'USPATFULL' ENTERED AT 18:35:43 ON 11 JAN 2001

L58 9 S L16 *9 patents*

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L4 153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES) *parent set*  
 OR (NCNC3/ES))  
 L6 STR

Subset 1

Hy @1 Hy @3

VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E2 RC AT 7  
 CONNECT IS E3 RC AT 8  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 1  
 GGCAT IS PCY UNS AT 3  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 1  
 ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

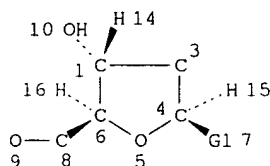
RSPEC I

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L8 58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6

L14 STR

Subset 2

Hy @11 Hy @13

VAR G1=11/13

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1  
 CONNECT IS E2 RC AT 3  
 CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 11  
 GGCAT IS PCY UNS AT 13  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 11  
 ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 14

STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE

NUMBER OF CHIRAL CENTERS IS 3

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Page 3

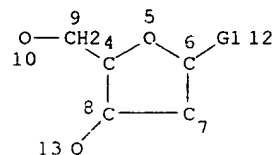
REYES 09/371,747

L16 62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
L18 80 SEA FILE=HCAPLUS ABB=ON PLU=ON L16

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L4 153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES) *parent set*  
OR (NCNC3/ES))

L6 STR

*Subset #1*

Hy @1 Hy @3

VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 6

CONNECT IS E2 RC AT 7

CONNECT IS E3 RC AT 8

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 1

GGCAT IS PCY UNS AT 3

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E4 C E2 N AT 1

ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

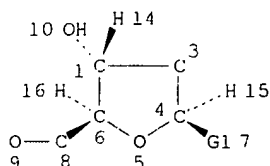
RSPEC I

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L8 58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6

L14 STR

*Subset #2*

Hy @11 Hy @13

VAR G1=11/13

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1

CONNECT IS E2 RC AT 3

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 6

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 11

GGCAT IS PCY UNS AT 13

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E4 C E2 N AT 11

ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 14

STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE

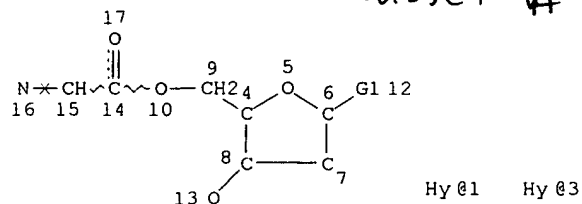
NUMBER OF CHIRAL CENTERS IS 3

SEARCHED BY SUSAN HANLEY 305-4053

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L16 62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
 L27 STR

*Subset #3 amino acid side chain*



VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E2 RC AT 7  
 CONNECT IS E3 RC AT 8  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 1  
 GGCAT IS PCY UNS AT 3  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 1  
 ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

RSPEC I

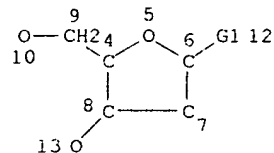
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

L29 268 SEA FILE=REGISTRY SUB=L8 SSS FUL L27  
 L30 0 SEA FILE=REGISTRY ABB=ON PLU=ON L29 AND L16

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L4 153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES) *parent set*  
 OR (NCNC3/ES))  
 L6 STR

*subset # 1*

Hy @1 Hy @3

VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E2 RC AT 7  
 CONNECT IS E3 RC AT 8  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 1  
 GGCAT IS PCY UNS AT 3  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 1  
 ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

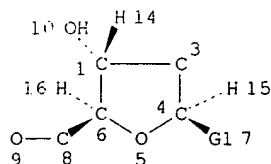
RSPEC I

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L8 58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6

L14 STR

*subset # 2*

Hy @11 Hy @13

VAR G1=11/13

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1  
 CONNECT IS E2 RC AT 3  
 CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 11  
 GGCAT IS PCY UNS AT 13  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 11  
 ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 14

STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE

NUMBER OF CHIRAL CENTERS IS 3

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The chemical structure shows a benzene ring with three substituents at the 1, 3, and 5 positions. The ring carbons are numbered 1 through 6. Substituents include a hydroxyl group (OH) at position 1, a hydrogen atom (H) at position 3, and a hydrogen atom (H) at position 5. The polymer chain is attached to the ring at position 4 via a wavy line. The polymer chain is a linear polyimide with repeating units containing amide and imide groups, with atoms numbered 7 through 26. The structure is shown in a perspective view with wedges and dashes to indicate stereochemistry.

CONNECT	IS	E3	RC	AT	1
CONNECT	IS	E2	RC	AT	3
CONNECT	IS	E3	RC	AT	4
CONNECT	IS	E3	RC	AT	6
CONNECT	IS	E2	RC	AT	17
CONNECT	IS	E2	RC	AT	18
CONNECT	IS	E3	RC	AT	19
CONNECT	IS	E3	RC	AT	20
CONNECT	IS	E3	RC	AT	21
CONNECT	IS	E3	RC	AT	22
CONNECT	IS	E2	RC	AT	23
CONNECT	IS	E2	RC	AT	24
CONNECT	IS	E2	RC	AT	25
CONNECT	IS	E1	RC	AT	26
DEFAULT	MLEVEL	IS	ATOM		
DEFAULT	ELEVEL	IS	LIMITED		

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RSPEC I
NUMBER OF NODES IS 21
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STEREO DEFAULT ABSOLUTE  
NUMBER OF CHIRAL CENTERS IS 3

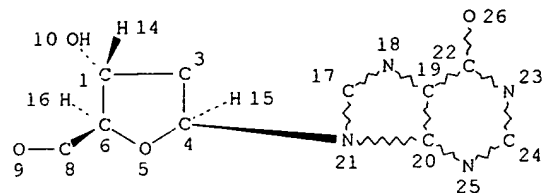
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L33      1 SEA FILE=REGISTRY SUB=L16 SSS FUL L31
L34      4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L33

```

L16 62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
 L31 STR

*subset #4 mosine base*



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1  
 CONNECT IS E2 RC AT 3  
 CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E2 RC AT 17  
 CONNECT IS E2 RC AT 18  
 CONNECT IS E3 RC AT 19  
 CONNECT IS E3 RC AT 20  
 CONNECT IS E3 RC AT 21  
 CONNECT IS E3 RC AT 22  
 CONNECT IS E2 RC AT 23  
 CONNECT IS E2 RC AT 24  
 CONNECT IS E2 RC AT 25  
 CONNECT IS E1 RC AT 26  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I  
 NUMBER OF NODES IS 21

STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE  
 NUMBER OF CHIRAL CENTERS IS 3  
 L33 1 SEA FILE=REGISTRY SUB=L16 SSS FUL L31  
 L34 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L33